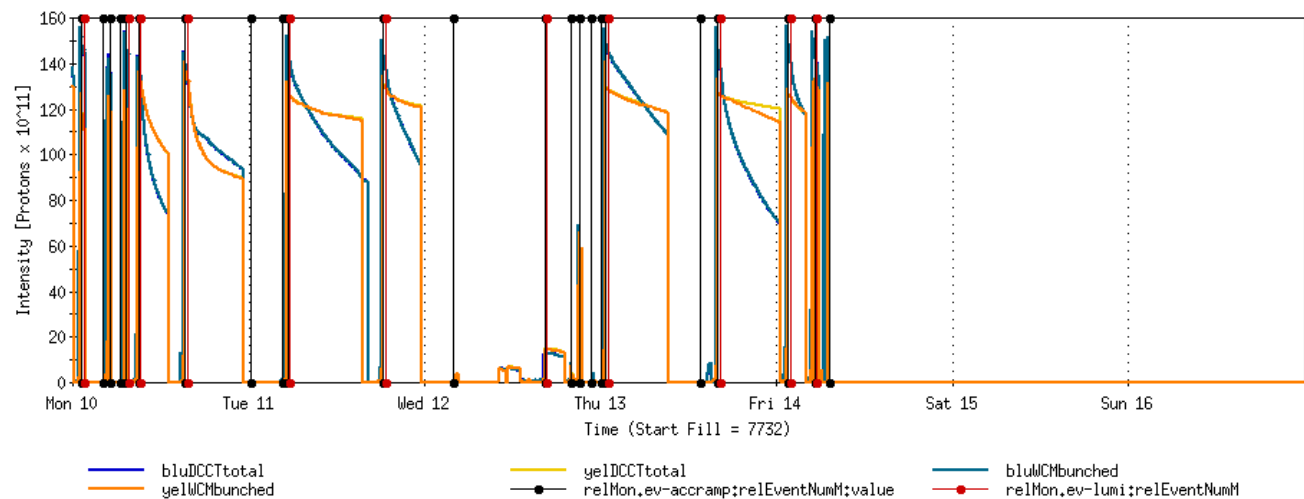
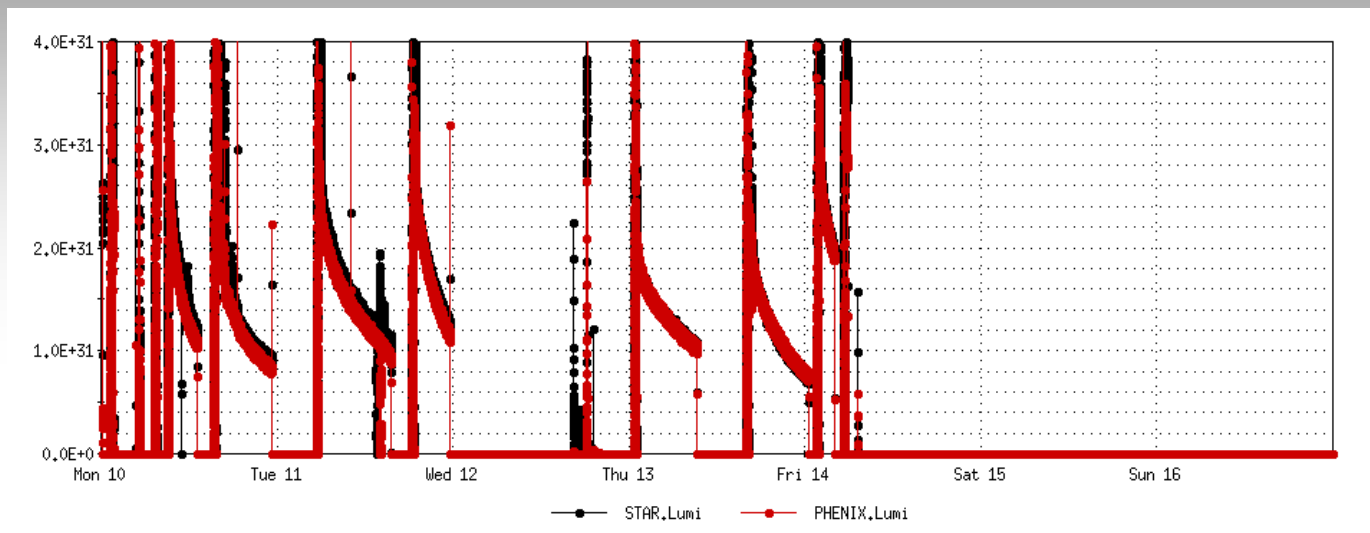


# **RHIC Status**

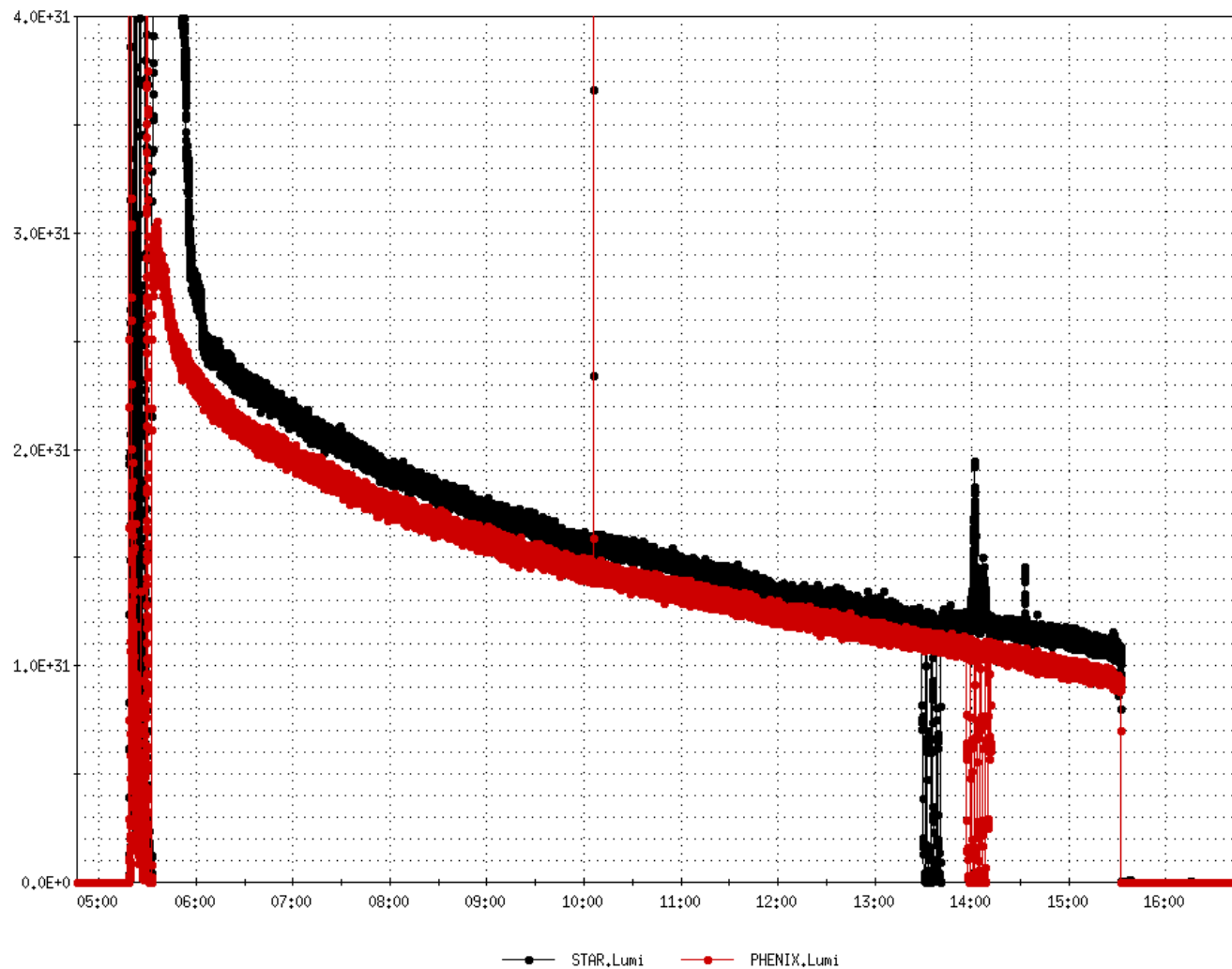
V.Ptitsyn

# Week 6: Luminosities

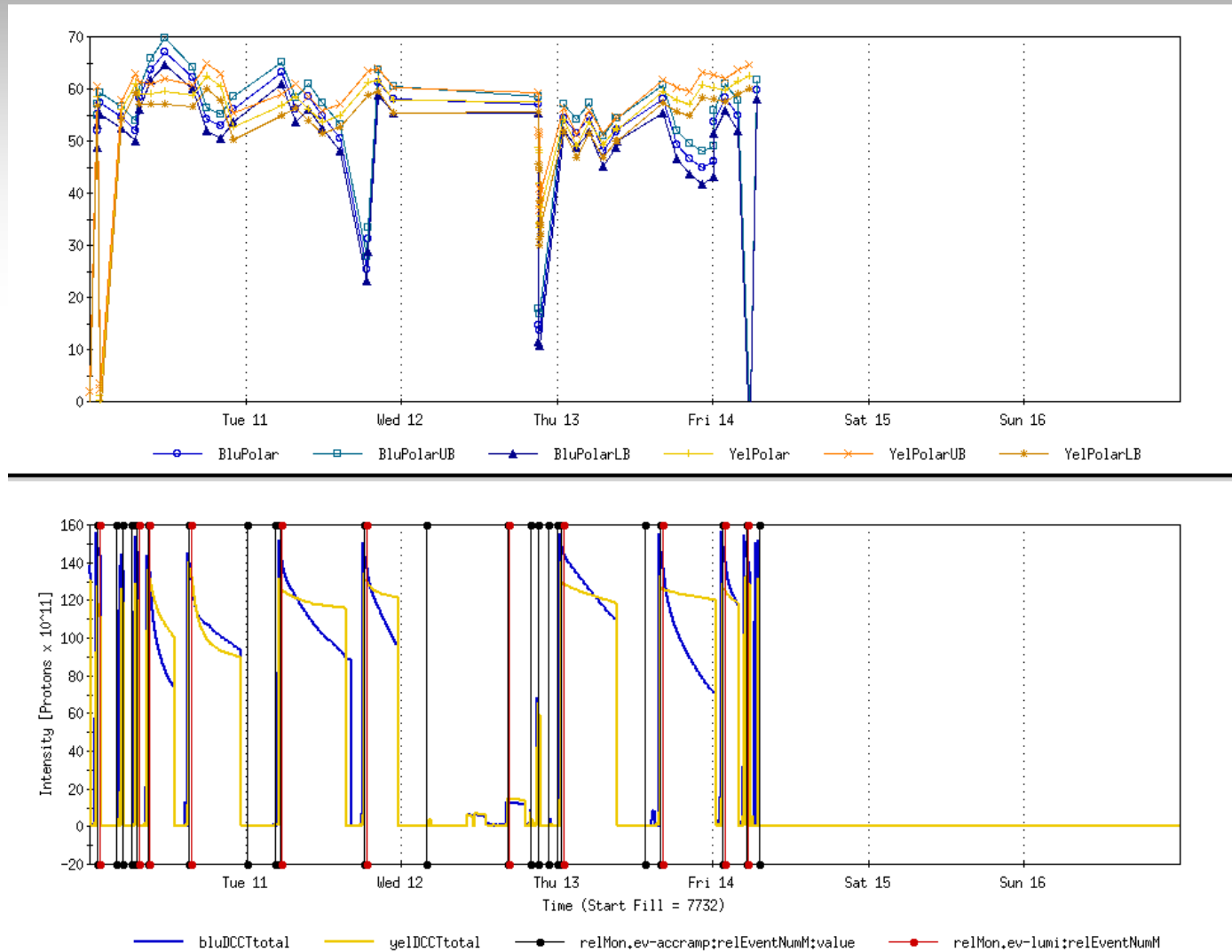


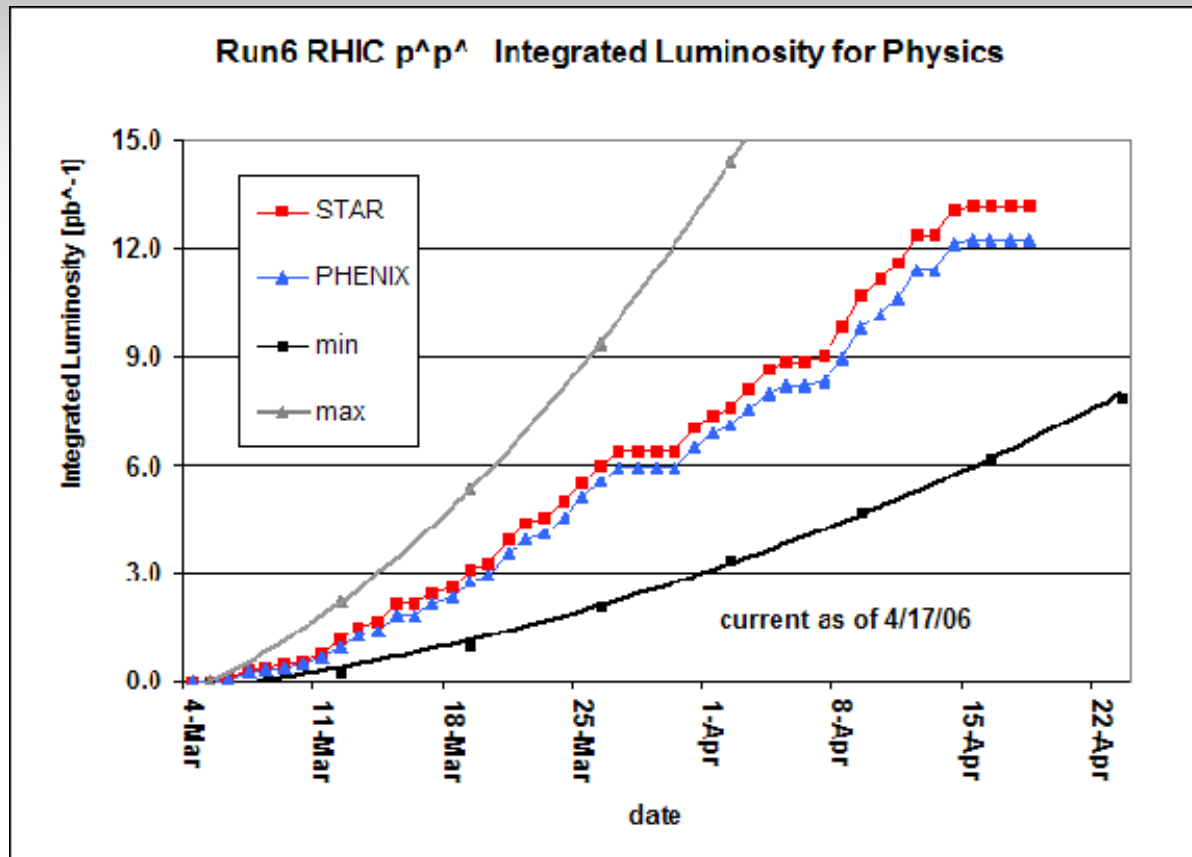
# Golden store 7744

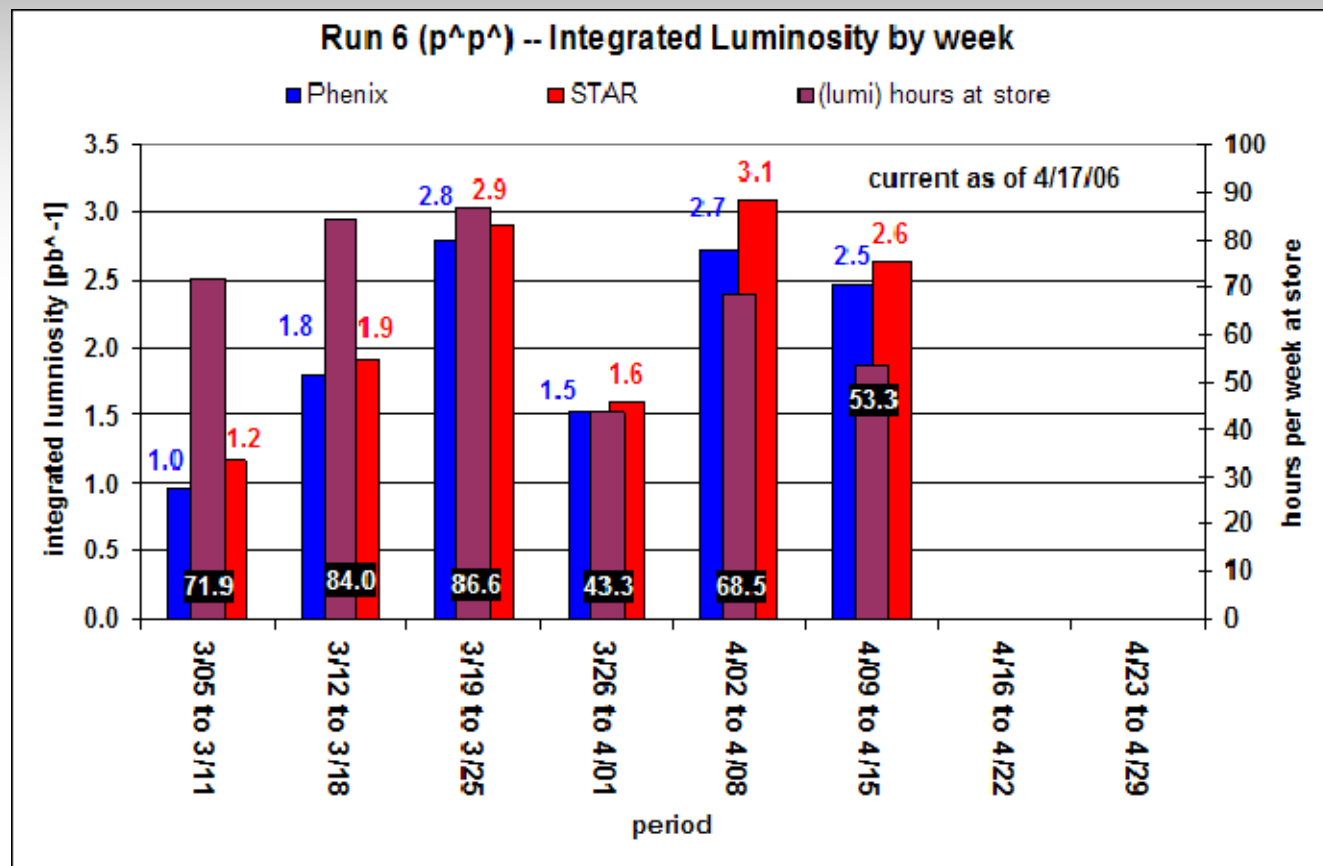
Luminosity



# Week 6: Polarization







# Further tasks and studies

- Improving lifetime at the store, pushing beam-beam limit:
  - Test of Blue working point above the diagonal (that is  $Q_x < Q_y$ )
  - Trying to equalize Blue and Yellow beam-beam conditions by using different intensities and/or different emittances of injected beam
- Emittance blowup on the ramp.
- Intensity limit at the injection (electron cloud).
- Rearranging the end of the ramp to be able to use different tune/chrom settings in the store with collisions from the settings without collisions.
- Vertex reduction efforts: longitudinal emittance from the injectors, quad pumping, storage cavities.